

IAP Cover Sheet

Version Name: 20161101_BTS

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

Approved By

Federal OSC:

Buerki, Karen - US Environmental Protection Agency

State OSC:

Wynn, Tim - Alabama Dept. of Emergency Management

Local OSC:

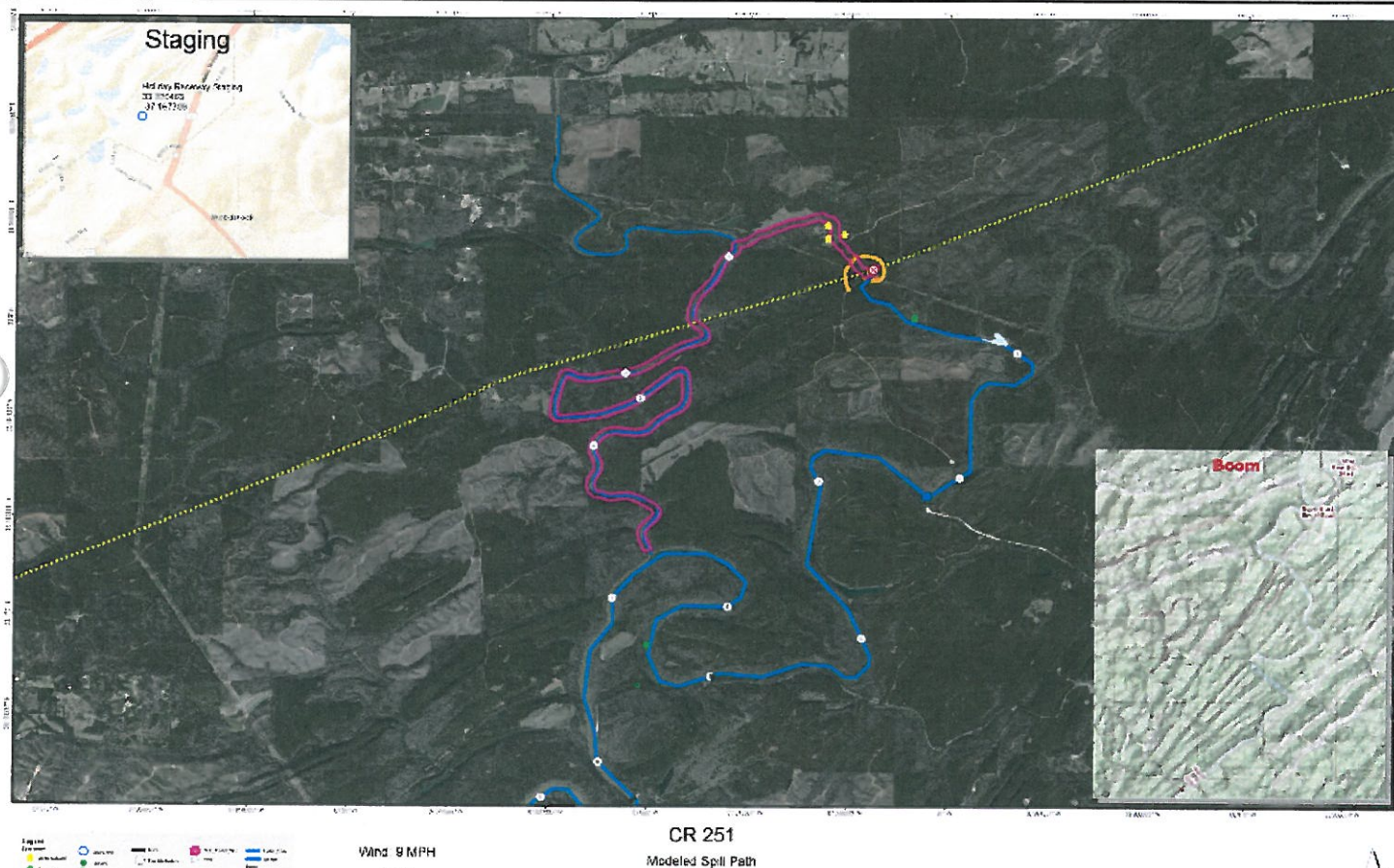
Ray, Danny - Pelham Fire Chief

Incident Commander:

Beck, Gerald - Colonial Pipeline Company

Incident Action Plan

Initial Incident.png



IAP Cover Sheet

Prepared By Terri Arnold, Updated 11/02/2016 05:18 GMT -6:00 PP

INCIDENT ACTION PLAN SOFTWARE™

Printed 11/02/2016 05:37 GMT -6:00

Page 1 of 32

© TRG

Table of Contents

Incident Name: CR-251

Period: Period 2 [11/02/16 07:00 - 11/03/16 07:00]

<i>Report Name</i>	<i>Page</i>
IAP Cover Sheet	1
Weather Report	3
ICS 201-2 - Summary of Current Actions	4
ICS 201-4 - Resource Summary	6
ICS 201-5 - Site Safety and Control Analysis	14
ICS 206 - Medical Plan	16
ICS 207 - Organization Chart	17
Air Monitoring Plan	21

Table of Contents

Present Conditions

Weather Conditions as of 11/02/2016 03:53
--

<p>Humidity (%): 72</p> <p>Wind Speed: 0.00 mph</p> <p>Wind Direction (from): N</p> <p>Temperature: 61.00 F</p> <p>Visibility: 10.00 mi</p> <p>Current Speed:</p> <p>Current Direction (to):</p> <p>Water Temperature:</p>	<p>Pressure: 30.24 IN</p> <p>Dew Point: 52.00</p> <p>Feels Like: 61.00</p> <p>UV Index:</p> <p>Wave Height:</p> <p>Wave Direction:</p> <p>Swell Height:</p> <p>Swell Interval:</p>
--	---

Clear

Forecast Date	Wind	Temp Hi/Lo	% Precip	Sunrise/Sunset	Notes
Wed 11/02/2016	5.00 MPH ESE	84.00 F/ F	0.00	07:06	Partly Cloudy
	2.00 MPH SE	F/63.00 F	0.00	17:54	Partly Cloudy
Thu 11/03/2016	4.00 MPH S	84.00 F/ F	7.00	07:07	Partly Cloudy
	7.00 MPH WNW	F/54.00 F	11.00	17:54	Partly Cloudy with Isolated Showers
Fri 11/04/2016	11.00 MPH N	73.00 F/ F	9.00	07:08	Sunny
	5.00 MPH N	F/45.00 F	0.00	17:52	Clear
Sat 11/05/2016	4.00 MPH NE	73.00 F/ F	0.00	07:10	Mostly Sunny
	2.00 MPH NNE	F/46.00 F	0.00	17:51	Mostly Clear
Sun 11/06/2016	3.00 MPH NNE	75.00 F/ F	0.00	06:11	Mostly Sunny
	2.00 MPH NE	F/46.00 F	0.00	16:50	Mostly Clear

Tides

--	--

ICS 201-2 - Summary of Current Actions		Version Name: Initial Response	
Incident Name: CR-251		Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]	
Initial Response Objectives			
Ensure the Safety of Citizens and Response Personnel			
Manage Coordinated Response Effort			
Control the Source			
Maximize Protection of Environmentally-Sensitive Areas			
Contain and Recover Spilled Material			
Communicate w/ public and stakeholders			
Current and Planned Actions			
Date/Time	Action/Event/Notes		
10/31/2016 14:55	Danny Cook called in with the report of a line strike mp 573.7. 770-689-9544		
10/31/2016 15:00	Line 1 and 2 shutdown		
10/31/2016 15:02	VAB MLBV closed		
10/31/2016 15:05	PLJ MLBV closed		
10/31/2016 15:06	OXB MLBV closed		
10/31/2016 15:07	EPB MLBV closed		
10/31/2016 15:07	Moundville MLBV Closed - Line 1		
10/31/2016 15:25	US manual isolation valve closed at the PLJ01 cooling tower		
10/31/2016 15:44	PLJ01 hydraulics turned off to MLBV and Discharge valve, Valves closed		
10/31/2016 15:50	Crews headed to close the manual block valves		
10/31/2016 15:56	NRC report submitted #1162982		
10/31/2016 16:02	ADEM notified - Zakiya Darry Inc#16-1099 (JW made notice)		
10/31/2016 16:27	Phones Jeff Titus on potential incident. He called Angie Kolar to determine. He called me back and said to deploy.		
10/31/2016 16:30	Rachel Gunaratnam called in from the NTSB with questions about injuries and the type of work we were doing.		
10/31/2016 16:30	Group 8 sent per Angie Kolar		
10/31/2016 16:36	West Side Cahaba River valve closed. Valve 498490		
10/31/2016 17:00	Incident Command Post set up at Valley Elementary School (310 Opportunity Drive, Pelham, AL 35124)		
10/31/2016 17:25	VAB01 DS isolation valve 408609 is closed. Hydraulics turned off to VAB01 MLBV and Discharge valve.		
10/31/2016 18:09	Downstream Cahaba River valve 505500 is closed and locked out.		
10/31/2016 18:10	Command Center is at Valley Elementary School, 310 Opportunity Dr, Pelham AL 35124		
10/31/2016 19:00	FOBS @ Living river org - contact Dana Byrd 205-283-5440 OSROS EN route (ETA: unknown at ths time)		
10/31/2016 19:19	HEPACO in route to AL-17a-1 to deploy boom (eta 21:00) (Billy Morton - Supervisor)		
10/31/2016 20:00	CTEH Began Air Monitoring, 4 POB/2 vehicles		
10/31/2016 22:00	HEPACO arrived at AL-17a-1 (CPC - Jeff Stewart-Project inspector)		
10/31/2016 22:50	Line 2 restarted		
10/31/2016 22:50	Renamed incident in IC/UC Objectives Meeting (Changed to CR-251)		
10/31/2016 23:24	Complete install of boom at AL-17A1 consisting of: 100' Cascading boom to collection point 240' Containment boom 240' soft boom in front of containment boom		
11/01/2016 00:30	Per Chief Ray -- 1600 -1830 Fire Break constructed by F.D. & AL Forestry Dept.		
11/01/2016 01:30	Williams Fire will be assisting with Technical experts		
ICS 201-2 - Summary of Current Actions			
Prepared By Terri Arnold, Updated 11/02/2016 05:29 GMT -6:00 PP			
INCIDENT ACTION PLAN SOFTWARE™	Printed 11/02/2016 05:37 GMT -6:00	Page 4 of 32	© TRG

ICS 201-2 - Summary of Current Actions

Version Name: Initial Response

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

11/01/2016 03:25	200' of hard boom installed at Living River Boom Site #1 and two vac trucks on site.
11/01/2016 05:28	300' of hard boom installed and 300' of soft boom installed at Living River Boom Site #3 and two vac trucks on site.
11/01/2016 08:00	Briefing conducted. Validated injuries/fatalities
11/01/2016 09:00	OPERATIONS Unit Log: Cazares, Juan -- OSHA is on site and ready to support.
11/01/2016 09:15	AL DCNR Fisheries, Wildlife, USFWS (D.O.I.) have been contacted by ENV (EPS) to give courtesy notifications.
11/01/2016 09:57	Staging area identified; 20105 Hwy 11 Woodstock AL 35188
11/01/2016 09:57	OSHA onsite. New staging at 20105 Hwy 11 Woodstock, AL
11/01/2016 11:18	CA (T.Mock) advised that the one couple who had evacuated was clear to return home by local fire dept
11/01/2016 11:20	Report of in-bound helo with media outlets --ETA 12:15.
11/01/2016 11:30	Report from field of 0900 OSHA Site Investigation visit.
11/01/2016 11:35	After the two river valves were closed, drain-up volume (Static) was 3,000 bbls. (per Jerry Brinkley)
11/01/2016 12:30	Briefed Congressman Palmer and staff on incident, answered questions. Briefed Mayor Waters (Pelham). Burn area 3.82 acres
11/01/2016 12:50	Reporter @ Hospital -- Aaron S. talking to him. (Relayed info to Gerald Beck @ 1300)
11/01/2016 14:00	Press briefing -- Unified Command
11/01/2016 20:09	CTEH Reported to Brian Smith that particulate monitoring went above the action level near residence.
11/01/2016 20:45	T. Mock dispatched to River Road to meet with home owners based on air monitoring report from Brian Smith (Safety).
11/01/2016 21:45	T. Mock located referenced home, contacted occupants, escorted CTEH to confirm air monitor readings.
11/01/2016 22:20	T. Mock spoke with occupant, (b) (6) stated they were not experiencing any problems in the home. T. Mock offered hotel, Mrs. (b) (6) declined. T. Mock told occupant to contact him at anytime should she or her husband experience discomfort. CTEH will continue to monitor and track. T. Mock to follow up with occupants on 11/2/16.
11/01/2016 22:25	T. Mock and Brian Smith discussed home owners relocation for the night.
11/01/2016 22:35	Verizon Installed cell phone tower at the site.
11/01/2016 22:45	T. Mock contacted Brian Smith with addresses of 3 homes affected by air quality. Brian Smith notified IC, IC instructed T. Mock to contact all 3 homeowners and make offer of alternate accommodations.
11/01/2016 23:00	T. Mock contacted second home owner (b) (6) and offered hotel. Homeowner declined.
11/01/2016 23:53	T. Mock attempts to contact 3rd home owner (b) (6) no phone, however learns (b) (6) CTEH to conduct hourly monitoring at each home throughout the night and will communicate findings to Brian Smith.

Approved By

Incident Commander: _____

Date: _____

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
238	1 each	Vehicle: F350	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	
80	100 feet	Boom: Cascade Boom	Hepaco	11/01/2016 02:13		<input type="checkbox"/>	AL-17A-1 Boom Site TF
78	400 feet	Boom: Hard Boom	Hepaco	11/01/2016 02:12		<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
84	1 each	Jon Boat: Jon Boat	Hepaco	11/01/2016 02:22		<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
459	1 each	Jon Boat: Jon Boat	Hepaco	11/01/2016 02:22		<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
460	1 each	Jon Boat: Jon Boat	Hepaco	11/01/2016 02:22		<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
461	1 each	Jon Boat: Jon Boat	Hepaco	11/01/2016 02:22		<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
76	1 each	Light Plants: Light Plant	Hepaco	11/01/2016 02:09		<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
81	6 each	Pickup Truck: Pickup Truck	Hepaco	11/01/2016 02:15		<input type="checkbox"/>	AL-17A-1 Boom Site TF
79	240 feet	Sorbent: Boom: Sorbent Boom	Hepaco	11/01/2016 02:12		<input type="checkbox"/>	AL-17A-1 Boom Site TF
471	1 each	Trailer: Trailer	Hepaco		10/31/2016 21:37	<input type="checkbox"/>	AL-17A-1 Boom Site TF
2	1 each	Vacuum Truck: Vacuum Truck (3000 - 3500 gal)	Hepaco		10/31/2016 21:26	<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
10	1 each	Vacuum Truck: Vacuum Truck (3000 - 3500 gal)	Hepaco		10/31/2016 21:26	<input checked="" type="checkbox"/>	AL-17A-1 Boom Site TF
551	1 each	Light Plants: Light Tower	Sun Belt Rentals			<input checked="" type="checkbox"/>	Command Post
623	1 each	Bull Dozer: Type 2 Dozer	Alabama Forestry Comm.	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
624	2 each	Bull Dozer: Type 3 Dozer	Alabama Forestry Comm.	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
628	5 each	Pickup Truck: Pickup Truck	Alabama Forestry Comm.	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
627	1 each	UTV: Utility Vehicle	Alabama Forestry Comm.	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
629	1 each	Vehicle: Type 2 Transport	Alabama Forestry Comm.	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
428	1 each	Vehicle: Fire Engine: De-Con	Alabaster fire Dept	11/01/2016 13:56		<input type="checkbox"/>	Demobilized
582	1 each	Vehicle: Fire Engine: Engine 12	Alabaster fire Dept	11/01/2016 13:56		<input type="checkbox"/>	Demobilized
605	1 each	Vehicle: Brush 200	Brierfield Fire & Rescue	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
607	1 each	Vehicle: Tanker 206	Brierfield Fire & Rescue	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
667	4 each	Ambulance: Northstar Ambulance	Northstar Paramedic	11/01/2016 22:05		<input type="checkbox"/>	Demobilized
666	3 each	Ambulance: Amserve Ambulance	Unknown - TBD	11/01/2016 22:05		<input type="checkbox"/>	Demobilized
636	1 each	Brush Patrol: Vestavia Brush Unit	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
600	1 each	Foam Trailer: Birmingham Foam Unit	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
690	141 each	Manpower: Responder: Local and Regional Fire Dept First Responders	Unknown - TBD	11/02/2016 00:30		<input type="checkbox"/>	Demobilized

ICS 201-4 - Resource Summary

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
589	1 each	Tanker Truck: Antioch Tanker	Unknown - TBD	11/01/2016 20:55		<input type="checkbox"/>	Demobilized
618	1 each	Tanker Truck: North Chilton Tanker	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
619	1 each	Tanker Truck: North Chilton Tanker	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
622	1 each	Tanker Truck: Pea Ridge Tanker 101	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
632	1 each	Tanker Truck: Union Grove Tanker	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
633	1 each	Tanker Truck: Vance Tanker	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
425	1 each	Vehicle: 18 Wheeler with Foam	Unknown - TBD	11/01/2016 13:53		<input type="checkbox"/>	Demobilized
596	1 each	Vehicle: Bessemer Rescue 1	Unknown - TBD	11/01/2016 21:01		<input type="checkbox"/>	Demobilized
602	1 each	Vehicle: Birmingham Hazmat 3	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
609	1 each	Vehicle: Brookwood Tanker	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
610	1 each	Vehicle: Cedar Grove Tanker	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
613	1 each	Vehicle: Centreville Tanker	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
616	1 each	Vehicle: Concord Brush Unit	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
615	1 each	Vehicle: County 17 Tanker 213	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
617	1 each	Vehicle: East Chilton Tanker	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
620	1 each	Vehicle: Enterprise Tanker	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
621	1 each	Vehicle: Four Mile Tanker 263	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
631	1 each	Vehicle: Saginaw Utility	Unknown - TBD	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
635	1 each	Vehicle: West Chilton Tanker	Unknown - TBD	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
591	1 each	Vehicle: Fire Engine: Bessemer Car 10	Unknown - TBD	11/01/2016 21:01		<input type="checkbox"/>	Demobilized
594	1 each	Vehicle: Fire Engine: Bessemer Engine 3	Unknown - TBD	11/01/2016 21:01		<input type="checkbox"/>	Demobilized
597	1 each	Vehicle: Fire Engine: Birmingham Engine 25	Unknown - TBD	11/01/2016 21:11		<input type="checkbox"/>	Demobilized
601	1 each	Vehicle: Fire Engine: Green Pond Engine 1	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
606	1 each	Vehicle: Fire Engine: Helena Engine 63	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
611	1 each	Vehicle: Fire Engine: Lakeview Engine 1	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
612	1 each	Vehicle: Fire Engine: Montevallo Engine 83	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
614	1 each	Vehicle: Fire Engine: Montevallo Service 85	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized

ICS 201-4 - Resource Summary

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
625	1 each	Vehicle: Fire Engine: Pelham Engine 94	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
638	1 each	Vehicle: Fire Engine: West Blocton Engine 1	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
634	1 each	Vehicle: Fire Engine: West Shelby Engine 241	Unknown - TBD	11/01/2016 21:37		<input type="checkbox"/>	Demobilized
603	1 each	Vehicle: Rescue: Green Pond Rescue 10	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
604	1 each	Vehicle: Rescue: Green Pond Rescue 13	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
608	1 each	Vehicle: Rescue: Helena Rescue	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
626	1 each	Vehicle: Rescue: Rock Ridge Rescue	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
630	1 each	Vehicle: Rescue: Shelby County Battalion	Unknown - TBD	11/01/2016 21:12		<input type="checkbox"/>	Demobilized
673	1 each	Utility Truck: Utility Truck	CECO Pipeline Services	11/01/2016 21:25		<input checked="" type="checkbox"/>	Incident Location
12	1000 feet	Boom: 12" - 18" Hard Boom ???	Hepaco		10/31/2016 21:34	<input type="checkbox"/>	Incident Location
13	1 each	Jon Boat: Jon Boat with Motor	Hepaco		10/31/2016 21:37	<input type="checkbox"/>	Incident Location
5	1 each	Jon Boat: Jon Boat with Motor	Hepaco		10/31/2016 21:37	<input type="checkbox"/>	Incident Location
694	1 each	Pickup Truck: Pickup Truck	Hepaco	11/02/2016 01:45		<input checked="" type="checkbox"/>	Incident Location
6	1 each	Vehicle: Pickup Truck	Hepaco		10/31/2016 21:37	<input type="checkbox"/>	Incident Location
7	1 each	Vehicle: Pickup Truck	Hepaco		10/31/2016 21:37	<input type="checkbox"/>	Incident Location
8	1 each	Vehicle: Pickup Truck	Hepaco		10/31/2016 21:37	<input type="checkbox"/>	Incident Location
14	1 each	Vehicle: Pickup Truck	Hepaco		10/31/2016 21:37	<input type="checkbox"/>	Incident Location
15	1 each	Vehicle: Pickup Truck	Hepaco		10/31/2016 21:37	<input checked="" type="checkbox"/>	Incident Location
642	1 each	Vehicle: Utility Truck	Hepaco	11/01/2016 21:02		<input type="checkbox"/>	Incident Location
643	1 each	Vehicle: Utility Truck	Hepaco	11/01/2016 21:03		<input type="checkbox"/>	Incident Location
557	1 each	Bull Dozer: CAT Dozer	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
558	1 each	Bull Dozer: Komatsu D37 PX	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
559	1 each	Equipment: Heavy: Midwestern Pipelayer	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
560	1 each	Equipment: Heavy: Midwestern Pipelayer	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
549	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
193	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
257	1 each	Tractor: Trailer Truck	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
261	1 each	Trailer: Lowboy or Float Trailer	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
556	1 each	Vehicle: Trailer Truck with Water Tank	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location

ICS 201-4 - Resource Summary

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
552	1 each	Vehicle: Water Truck (Sunbelt)	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	Incident Location
376	1 each	Vehicle: Pelham Command Vehicle	Pelham Fire Department	11/01/2016 13:34		<input type="checkbox"/>	Incident Location
127	1000 feet	Boom: Containment Boom 18"	SWS Environmental Services		10/31/2016 21:48	<input type="checkbox"/>	Living River Boom Site Group
20	1000 feet	Boom: Containment Boom 18"	SWS Environmental Services		10/31/2016 21:48	<input type="checkbox"/>	Living River Boom Site Group
69	900 feet	Boom: Hard Boom	SWS Environmental Services	11/01/2016 01:57		<input type="checkbox"/>	Living River Boom Site Group
494	1100 feet	Boom: Hard Boom	SWS Environmental Services	11/01/2016 01:57		<input type="checkbox"/>	Living River Boom Site Group
70	1700 feet	Boom: Soft Boom	SWS Environmental Services	11/01/2016 01:58		<input type="checkbox"/>	Living River Boom Site Group
410	1	Boom Trailer: Boom Trailer	SWS Environmental Services	11/01/2016 13:48		<input type="checkbox"/>	Living River Boom Site Group
346	1 each	Boom Trailer: Boom Trailer	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
19	1 each	Emergency Response Trailer: Emergency Response Trailer	SWS Environmental Services		10/31/2016 21:30	<input checked="" type="checkbox"/>	Living River Boom Site Group
126	1 each	Emergency Response Trailer: Emergency Response Trailer	SWS Environmental Services		10/31/2016 21:30	<input type="checkbox"/>	Living River Boom Site Group
357	1 each	Frac Tank: Frac Tank	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
358	1 each	Frac Tank: Frac Tank	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
359	1 each	Frac Tank: Frac Tank	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
361	1 each	Frac Tank: Frac Tank	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
362	1 each	Frac Tank: Frac Tank	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
344	1 each	Jon Boat: Jon Boat	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
409	1 each	Jon Boat: Jon Boat & Trailer	SWS Environmental Services	11/01/2016 13:47		<input type="checkbox"/>	Living River Boom Site Group
347	1 each	Light Plants: Light Plant	SWS Environmental Services	11/01/2016 13:19		<input type="checkbox"/>	Living River Boom Site Group
349	1 each	Light Plants: Light Plant	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
351	1 each	Light Plants: Light Plant	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
352	1 each	Light Plants: Light Plant	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
354	1 each	Light Plants: Light Plant	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
355	1 each	Light Plants: Light Plant	SWS Environmental Services	11/01/2016 13:21		<input type="checkbox"/>	Living River Boom Site Group
356	1 each	Pickup Truck: F250	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
348	1 each	Pickup Truck: F250	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
366	1 each	Pickup Truck: F250	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
405	1	Pickup Truck: F250 Pick up Truck	SWS Environmental Services	11/01/2016 13:45		<input type="checkbox"/>	Living River Boom Site Group

ICS 201-4 - Resource Summary

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
414	1	Pickup Truck: Pickup Truck F150	SWS Environmental Services	11/01/2016 13:49		<input type="checkbox"/>	Living River Boom Site Group
367	1 each	Tractor Trailer: Tractor Trailer	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
369	1 each	Tractor Trailer: Tractor Trailer	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
363	1 each	Tractor Trailer: Tractor Trailer	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
364	1 each	Tractor Trailer: Wrecker	SWS Environmental Services	11/01/2016 13:07		<input type="checkbox"/>	Living River Boom Site Group
124	1 each	Vacuum Truck: Vacuum Truck, 2500 Gallon	SWS Environmental Services		11/01/2016 06:58	<input checked="" type="checkbox"/>	Living River Boom Site Group
125	1 each	Vacuum Truck: Vacuum Truck, 2500 Gallon	SWS Environmental Services		11/01/2016 06:58	<input checked="" type="checkbox"/>	Living River Boom Site Group
17	1 each	Vacuum Truck: Vacuum Truck, 2500 Gallon	SWS Environmental Services		10/31/2016 21:45	<input checked="" type="checkbox"/>	Living River Boom Site Group
18	1 each	Vacuum Truck: Vacuum Truck, 2500 Gallon	SWS Environmental Services		10/31/2016 21:45	<input checked="" type="checkbox"/>	Living River Boom Site Group
22	1 each	Vehicle: Pickup Truck	SWS Environmental Services		10/31/2016 21:49	<input checked="" type="checkbox"/>	Living River Boom Site Group
23	1 each	Vehicle: Pickup Truck	SWS Environmental Services		10/31/2016 21:49	<input checked="" type="checkbox"/>	Living River Boom Site Group
24	1 each	Vehicle: Pickup Truck	SWS Environmental Services		10/31/2016 21:49	<input checked="" type="checkbox"/>	Living River Boom Site Group
129	1 each	Vehicle: Pickup Truck	SWS Environmental Services		10/31/2016 21:49	<input type="checkbox"/>	Living River Boom Site Group
30	1 each	Vehicle: Pickup Truck	SWS Environmental Services		10/31/2016 21:49	<input type="checkbox"/>	Living River Boom Site Group
131	1 each	Vehicle: Pickup Truck	SWS Environmental Services		10/31/2016 21:49	<input type="checkbox"/>	Living River Boom Site Group
21	1 each	Vessel: Jon Boat & Trailer	SWS Environmental Services		10/31/2016 21:48	<input checked="" type="checkbox"/>	Living River Boom Site Group
458	1 each	Vacuum Truck: Hydrovac	Badger Day Lighting Corporation		11/01/2016 17:00	<input type="checkbox"/>	RaceTrack Holiday Raceway
491	1 each	Pickup Truck: Ford F250	CECO Pipeline Services			<input type="checkbox"/>	RaceTrack Holiday Raceway
485	1 each	Command Trailer: Staging Command Trailer	Colonial Pipeline			<input type="checkbox"/>	RaceTrack Holiday Raceway
484	1 each	Fork Lift: Fork Lift	Colonial Pipeline			<input type="checkbox"/>	RaceTrack Holiday Raceway
486	1 each	Generator: Staging Command Trailer Generator	Colonial Pipeline			<input type="checkbox"/>	RaceTrack Holiday Raceway
490	1 each	UTV: Kawasaki Mule 4010	Colonial Pipeline			<input type="checkbox"/>	RaceTrack Holiday Raceway
85	1 each	Boom Trailer: Boom Trailer	Hepaco	11/01/2016 02:23		<input type="checkbox"/>	RaceTrack Holiday Raceway
-- 4	1000 feet	Boom: 12" - 18" Hard Boom	Hepaco		10/31/2016 21:34	<input type="checkbox"/>	RaceTrack Holiday Raceway
517	1 each	Boom Trailer: Boom Trailer	Hepaco	11/01/2016 02:23		<input type="checkbox"/>	RaceTrack Holiday Raceway
-- 77	500 feet	Boom: Hard Boom	Hepaco	11/01/2016 02:10		<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
510	1 each	Emergency Response Trailer: Emergency Response Trailer	Hepaco		10/31/2016 21:30	<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
11	1 each	Emergency Response Trailer: Emergency Response Trailer	Hepaco		10/31/2016 21:30	<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway

ICS 201-4 - Resource Summary

INCIDENT ACTION PLAN SOFTWARE™

Printed 11/02/2016 05:37 GMT -6:00

Page 10 of 32

© TRG

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
513	1 each	Pickup Truck: Chevy 2500	Hepaco			<input type="checkbox"/>	RaceTrack Holiday Raceway
474	1 each	Pickup Truck: Chevy 2500	Hepaco			<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
504	1 each	Response Van: Express Passenger Van	Hepaco			<input type="checkbox"/>	RaceTrack Holiday Raceway
1	1 each	Vacuum Truck: Vacuum Truck (3000 - 3500 gal)	Hepaco		10/31/2016 21:26	<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
9	1 each	Vacuum Truck: Vacuum Truck (3000 - 3500 gal)	Hepaco		10/31/2016 21:26	<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
523	1 each	Vehicle: Pickup Truck	Hepaco		10/31/2016 21:37	<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
688	1 each	Vehicle: Box Truck	Metro Truck Rentals	11/01/2016 23:20		<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
495	1 each	Generator: Wacker Newson	Sun Belt Rentals			<input type="checkbox"/>	RaceTrack Holiday Raceway
496	1 each	Lighting: Light Tower	Sun Belt Rentals			<input type="checkbox"/>	RaceTrack Holiday Raceway
499	1 each	Lighting: Light Tower	Sun Belt Rentals			<input type="checkbox"/>	RaceTrack Holiday Raceway
502	1 each	Lighting: Light Tower	Sun Belt Rentals			<input type="checkbox"/>	RaceTrack Holiday Raceway
464	1 each	Lighting: Light Tower	Sun Belt Rentals			<input type="checkbox"/>	RaceTrack Holiday Raceway
466	1 each	Lighting: Light Tower	Sun Belt Rentals			<input type="checkbox"/>	RaceTrack Holiday Raceway
668	1 each	UTV: UTV	Sun Belt Rentals	11/01/2016 21:10		<input type="checkbox"/>	RaceTrack Holiday Raceway
674	1 each	Trailer: Trailer	The Response Group	11/01/2016 21:26		<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
733	1 each	Trailer: Trailer	The Response Group	11/02/2016 03:31		<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
734	1 each	Trailer: Trailer	The Response Group	11/02/2016 03:32		<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
686	1 each	Light Plants: Light Plant	United Rentals.	11/01/2016 23:12		<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
687	1 each	Light Plants: Light Plant	United Rentals.	11/01/2016 23:13		<input checked="" type="checkbox"/>	RaceTrack Holiday Raceway
640	1 each	Light Plants: Light Plant	United Rentals.	11/01/2016 21:57	11/01/2016 23:59	<input type="checkbox"/>	RaceTrack Holiday Raceway
641	1 each	Light Plants: Light Plant	United Rentals.	11/01/2016 21:57	11/01/2016 23:59	<input type="checkbox"/>	RaceTrack Holiday Raceway
742	1 each	Pickup Truck: Welding Rig - Silverado 3500		11/02/2016 04:07		<input type="checkbox"/>	River Road Staging
745	1 each	Vehicle: Ford Expedition - CTEH	CTEH - Center for Toxicology & Environmental Health LLC	11/02/2016 04:12		<input type="checkbox"/>	River Road Staging
519	1 each	Generator: ESSE/Verizon Generator	Energy Systems Southeast	11/01/2016 16:53		<input type="checkbox"/>	River Road Staging
520	1 each	Pickup Truck: Pickup Truck	Energy Systems Southeast	11/01/2016 16:53		<input checked="" type="checkbox"/>	River Road Staging
522	1 each	Pickup Truck: Pickup Truck	Energy Systems Southeast	11/01/2016 16:53		<input type="checkbox"/>	River Road Staging
524	1 each	Pickup Truck: Pickup Truck	Energy Systems Southeast	11/01/2016 16:53		<input checked="" type="checkbox"/>	River Road Staging
3	1 each	Emergency Response Trailer: Emergency Response Trailer	Hepaco		10/31/2016 21:30	<input checked="" type="checkbox"/>	River Road Staging
86	15 bale(s)	Sorbent: Diapers	Hepaco	11/01/2016 02:24		<input type="checkbox"/>	River Road Staging
3	760 feet	Sorbent: Boom: Sorbent Boom	Hepaco	11/01/2016 02:19		<input checked="" type="checkbox"/>	River Road Staging

ICS 201-4 - Resource Summary

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
246	1 each	Vehicle: Fire Engine: Fire Engine 821	Indian Ford	11/01/2016 09:52		<input checked="" type="checkbox"/>	River Road Staging
249	1 each	Vehicle: Fire Engine: Fire Tanker 830	Indian Ford	11/01/2016 09:52		<input checked="" type="checkbox"/>	River Road Staging
223	1 each	Air Compressor: CFM Compressor	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
509	1 each	Fork Lift: Fork Lift - Sunbelt Rental	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
194	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
187	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
196	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
198	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
199	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
201	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
247	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
244	1 each	Lighting: Light Tower	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
741	1 each	Pickup Truck: F 250 White	L.E. Bell Construction Co., Inc.	11/02/2016 04:07		<input checked="" type="checkbox"/>	River Road Staging
746	1 each	Pickup Truck: F250 White	L.E. Bell Construction Co., Inc.	11/02/2016 04:18		<input checked="" type="checkbox"/>	River Road Staging
749	1 each	Pickup Truck: Ford F-250 White	L.E. Bell Construction Co., Inc.	11/02/2016 04:38		<input checked="" type="checkbox"/>	River Road Staging
740	1 each	Pickup Truck: Pickup Truck F250	L.E. Bell Construction Co., Inc.	11/02/2016 04:06		<input type="checkbox"/>	River Road Staging
743	1 each	Pickup Truck: Pickup Truck F250	L.E. Bell Construction Co., Inc.	11/02/2016 04:09		<input type="checkbox"/>	River Road Staging
739	1 each	Pickup Truck: Pickup Truck Ford F250	L.E. Bell Construction Co., Inc.	11/02/2016 03:55		<input checked="" type="checkbox"/>	River Road Staging
250	1 each	Roll Off Box: Lowboy or Float Trailer	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
263	1 each	Tractor: Tract Hoe	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
251	1 each	Tractor: Tractor	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
748	1 each	Utility Trailer: 20' Utility Trailer	L.E. Bell Construction Co., Inc.	11/02/2016 04:22		<input checked="" type="checkbox"/>	River Road Staging
735	1 each	UTV: Kubota	L.E. Bell Construction Co., Inc.	11/02/2016 03:39		<input checked="" type="checkbox"/>	River Road Staging
237	1 each	Vacuum Unit: F350	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
285	1 each	Vehicle: E350	L.E. Bell Construction Co., Inc.	11/01/2016 11:07		<input checked="" type="checkbox"/>	River Road Staging
287	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.	11/01/2016 11:07		<input checked="" type="checkbox"/>	River Road Staging
239	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
240	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
242	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
281	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.	11/01/2016 11:07		<input checked="" type="checkbox"/>	River Road Staging
282	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.	11/01/2016 11:07		<input checked="" type="checkbox"/>	River Road Staging
33	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.	11/01/2016 11:07		<input checked="" type="checkbox"/>	River Road Staging

ICS 201-4 - Resource Summary

ICS 201-4 - Resource Summary

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

ID	Resource			Ordered	ETA	Arrived	Area Of Operation
	Quantity	Kind/Description	Supplier				
284	1 each	Vehicle: F250	L.E. Bell Construction Co., Inc.	11/01/2016 11:07		<input checked="" type="checkbox"/>	River Road Staging
205	1 each	Vehicle: F350	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
286	1 each	Vehicle: F350	L.E. Bell Construction Co., Inc.	11/01/2016 11:07		<input checked="" type="checkbox"/>	River Road Staging
216	0 each	Vehicle: Flatbed Dump Truck	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
207	1 each	Vehicle: MACK TRUCK	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
191	1 each	Vehicle: Trailer	L.E. Bell Construction Co., Inc.			<input checked="" type="checkbox"/>	River Road Staging
750	1 each	Pickup Truck: Chevy Tahoe	Mc Adory Fire Department	11/02/2016 05:03		<input type="checkbox"/>	River Road Staging
260	1 each	Emergency Response Trailer: Pelham Hazmat Trailer	Pelham Fire Department	11/01/2016 10:05		<input checked="" type="checkbox"/>	River Road Staging
256	1 each	Response Truck: Pelham Brush Truck	Pelham Fire Department	11/01/2016 10:05		<input checked="" type="checkbox"/>	River Road Staging
754	1 each	UTV: Kubota RTV 900	Pelham Fire Department	11/02/2016 05:14		<input checked="" type="checkbox"/>	River Road Staging
265	3 each	Ambulance: Ambulance	Regional Paramedical Services	11/01/2016 10:17		<input checked="" type="checkbox"/>	River Road Staging
756	1 each	Vehicle: Sheriff Chevy Tahoe	Shelby County Police	11/02/2016 05:20		<input checked="" type="checkbox"/>	River Road Staging
276	1 each	Equipment: Comms: COW - Cellsite on Wheels	Southern LINC	11/01/2016 10:51		<input checked="" type="checkbox"/>	River Road Staging
279	1 each	Equipment: Comms: GOAT - Genset on Wheels	Southern LINC	11/01/2016 10:51		<input checked="" type="checkbox"/>	River Road Staging
280	1 each	Equipment: Comms: SOW - Sattelite on Wheels	Southern LINC	11/01/2016 10:51		<input checked="" type="checkbox"/>	River Road Staging
195	1 each	Lighting: Light Tower	Sun Belt Rentals			<input checked="" type="checkbox"/>	River Road Staging
512	1 each	Lighting: Light Tower	Sun Belt Rentals			<input checked="" type="checkbox"/>	River Road Staging
514	1 each	Lighting: Light Tower	Sun Belt Rentals			<input checked="" type="checkbox"/>	River Road Staging
736	1 each	Trailer: Response Trailer	The Response Group	11/02/2016 03:45		<input type="checkbox"/>	River Road Staging
732	1 each	Trailer: Response Trailer	The Response Group	11/02/2016 03:29		<input checked="" type="checkbox"/>	River Road Staging
744	1 each	Equipment: Comms: Verizon Signal Booster Tower	Verizon	11/02/2016 04:12		<input type="checkbox"/>	River Road Staging
752	1 each	Generator: Generac Generator	Verizon	11/02/2016 05:09		<input type="checkbox"/>	River Road Staging

ICS 201-4 - Resource Summary

Incident Name: CR-251	Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]
-----------------------	--

Site Control

1. Is Site Control set up? Yes	2. Is there an on-scene command post? Yes	If so, where? Valley Elementary School
3. Have all personnel been accounted for? Yes	Injuries 5 Unaccounted 0	Fatalities 1 Trapped 0
4. Are observers involved, or rescue attempts ongoing/planned?	Observers - Yes Rescuers - No	5. Are decon areas setup? No

Hazard Identification

1. Electrical line(s) down or overhead? Yes Remarks: 400' SSW from site	2. Unidentified liquid or solid products visible? No Remarks:
3. Wind direction across incident Away from your position Wind Speed: 1 mph	4. Is a safe approach possible? Yes Remarks: Fire Department controlling access
5. Odors or smells? Yes Remarks: smoke	6. Vapors visible? No Remarks:
7. Holes, ditches, fast water, cliffs, etc. nearby? No Remarks:	8. Fire, sparks, sources of ignition nearby? Yes Remarks:
9. Is local traffic a potential problem? No Remarks:	10. Product placards, color codes visible? No Remarks:
11. Other hazards? No Remarks:	12. As you approach the scene from upwind, do you note a change in the status of any of the above? No Remarks:

Hazard Mitigation

1. Entry Objectives: Ensure public and personnel safety through air monitoring and exclusion zone establishment	
2. Warning sign(s), barriers, color codes in place?	Yes
3. Hazardous material being monitored?	Yes
3a. Sampling Equipment:	Minican, MultiRAE
3b. Sampling Locations:	CR-13, residential areas
3c. Sampling Frequency:	once an hour
3d. Personal Exposure Monitoring:	N/A
4. Protective gear/level:	
4a. Gloves:	
4b. Respirators:	N/A
4c. Clothing:	FR
4d. Boots:	Safety Shoes
4e. Chemical cartridge change frequency:	N/A
5. Decon	
5a. Instructions:	N/A
5b. Decon equipment and materials:	N/A
6. Emergency escape route established?	Yes
7. Field Responders briefed on hazards?	Yes
8. Remarks Only necessary personnel allowed within the Hot Zone if authorized to do so by local fire department	

ICS 206 - Medical Plan

Version Name: 20161101 DFJ

Incident Name: CR-251

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]

Medical Aid Stations

Name	Location	Paramedic On Site	Phone	Radio
Pelham Fire Department	Street Helena, AL 35080 -87.00604 33.20369	<input checked="" type="checkbox"/>	Ph1: 205.369.1467	

Transportation (Ground and/or Air Ambulance Services)

Ambulance Service	Location	Phone	Radio	Air	ALS
RPS Ambulance Service	-87.00639 33.20425	Ph1: On Site		<input type="checkbox"/>	<input checked="" type="checkbox"/>
TCP - Lifesaver	-87.00639 33.20425	Ph1: 205-324-1066		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Hospitals

Hospital	Location	Phone	Radio	Air Travel Time	Ground Travel Time	Trauma Center	Helipad	Burn Center
Shelby Baptist Medical Center	1000 First Street North Alabaster, AL 35007 -86.8141 33.2544	Ph1: 205-620-8100		15 min	30 min	III	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UAB Hospital	1802 6th Avenue South Birmingham, AL 35233 -84.14655 33.8055	Ph1: 205-934-5100		15 min	45 min	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Special Medical Emergency Procedures

RPS Ambulance Service, Pelham and Helena Fire Department are on site at the staging area -at a minimum 1 ambulance (1 paramedic 1 EMT)

Pelham Fire EMS supplying mobile rehab also has a decon in staging.

Fire Departments will coordinate air ambulance service if needed.

Approved By

Safety officer: _____

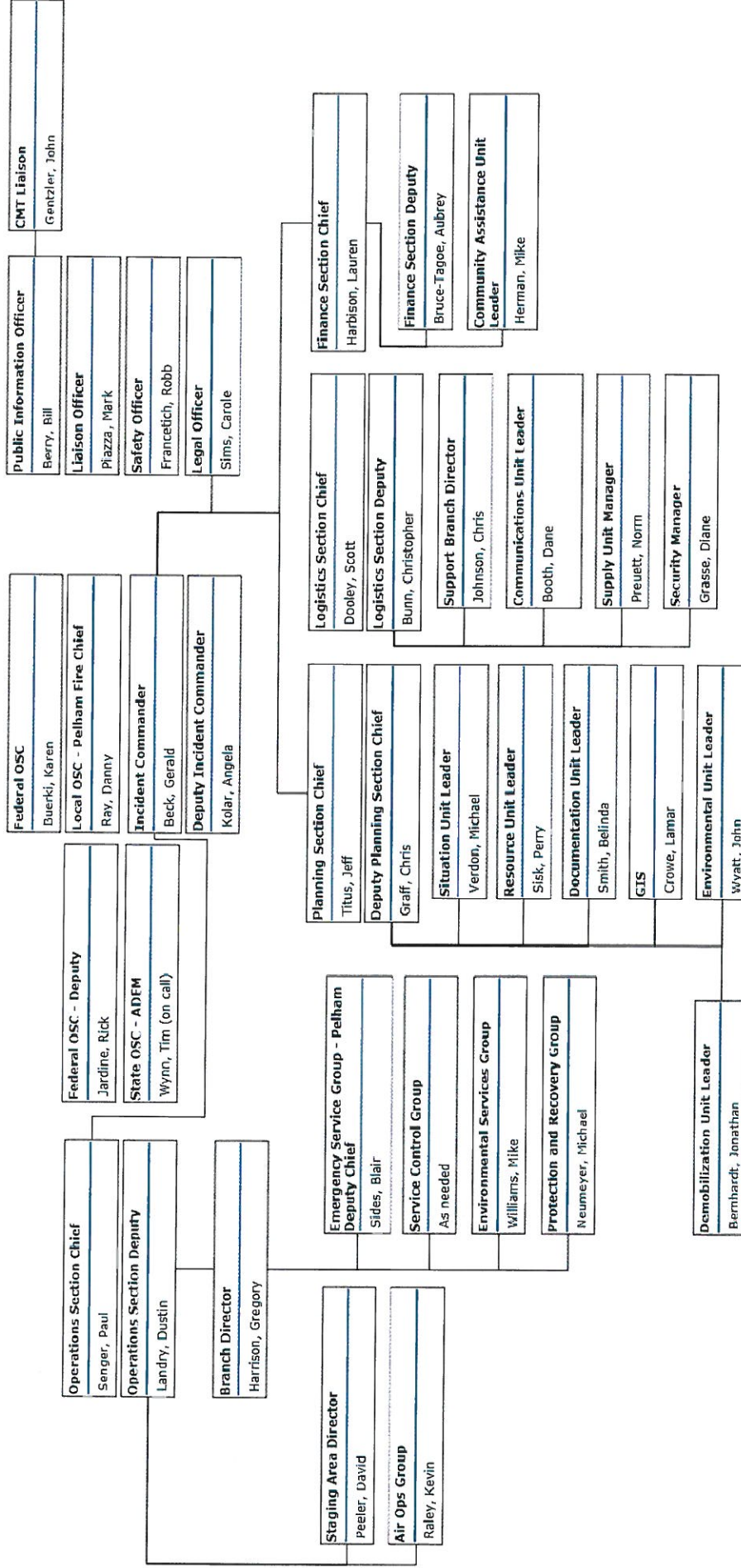
Date: _____

ICS 207 - Organization Chart

Incident Name: CR-251

Version Name: 20161102_Overall_Days

Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]



ICS 207 - Organization Chart

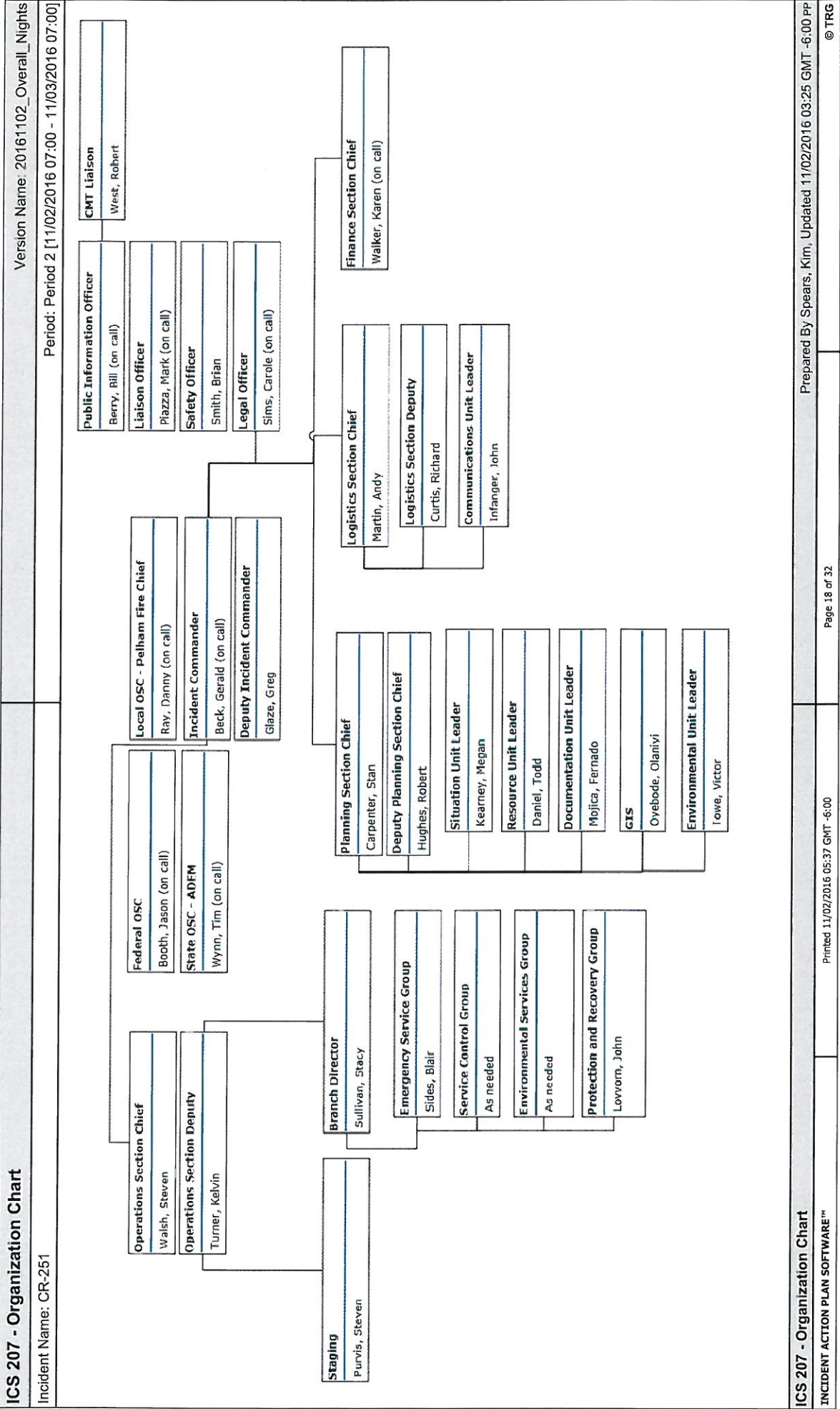
INCIDENT ACTION PLAN SOFTWARE™

Printed 11/02/2016 05:37 GMT -6:00

Page 17 of 32

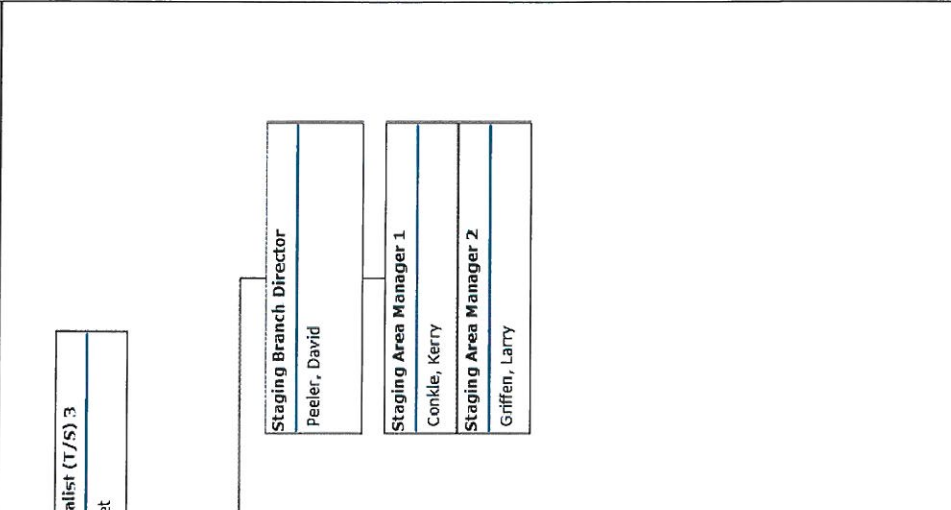
Prepared By: Spears, Kim, Updated 11/02/2016 00:50 GMT -6:00 PP

© TRG



Version Name: 20161102_Operations_Days

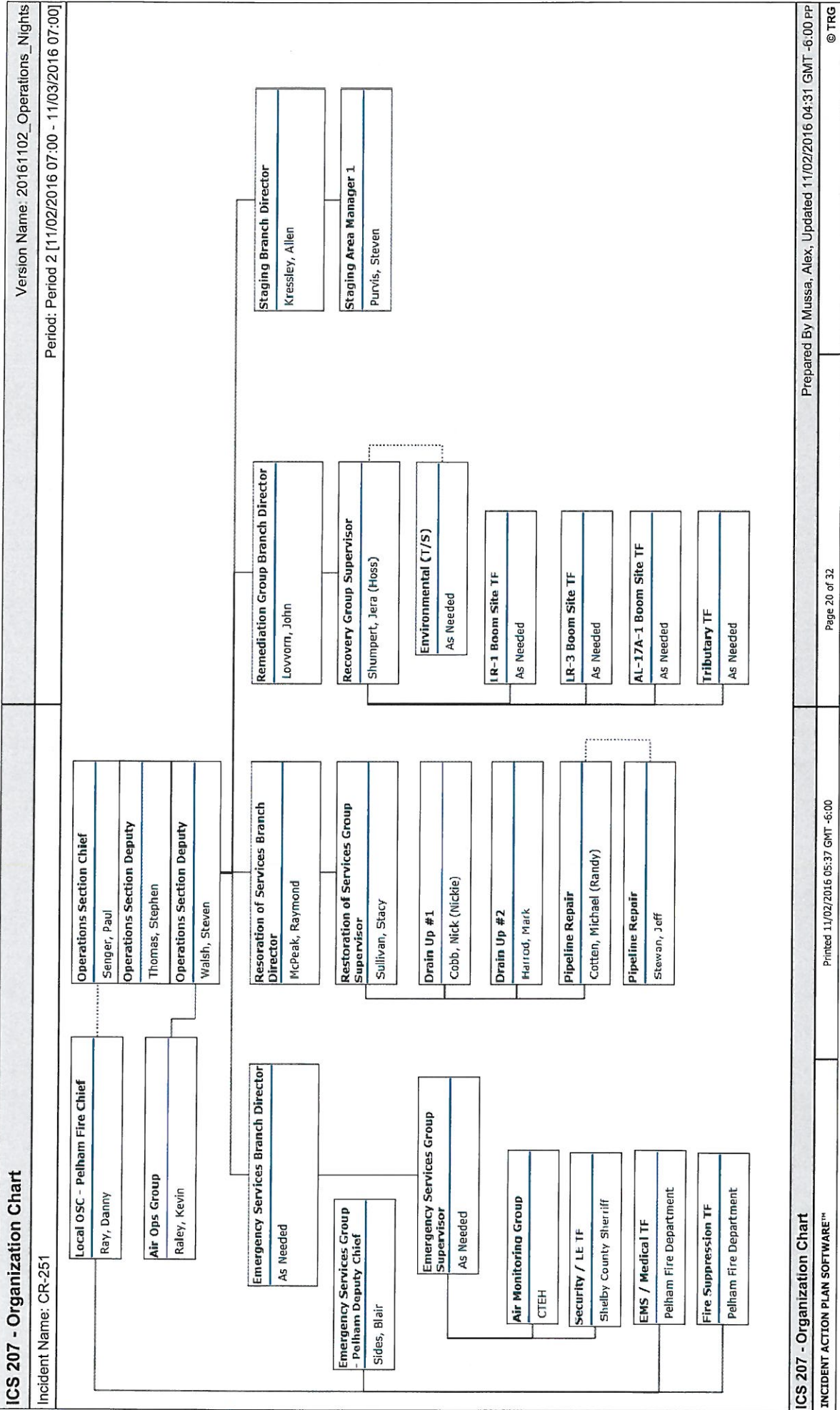
Period: Period 2 [11/02/2016 07:00 - 11/03/2016 07:00]



Prepared By Mussa, Alex, Updated 11/02/2016 04:30 GMT -6:00 PP

Page 19 of 32

© TRG





CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Colonial CR-251 Event

Helena, AL

Air Sampling and Analysis Plan

Version 1.1

Prepared On Behalf Of:

Colonial Pipeline

Prepared By:

Center for Toxicology and Environmental Health, L.L.C.

5120 North Shore Blvd

Little Rock, AR 72118

501-801-8500

11/01/2016



CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Version 1.1

	Name/Organization	Signature	Date Signed
Prepared by:	Michael Lumpkin, Ph.D., DABT CTEH® Project Technical Director	<i>Michael R. Lumpkin</i>	11/1/2016
Reviewed by:	Jacob Fenske CTEH® Project Manager	<i>JA Fenske</i>	11/1/2016
Submitted by:	Robb Francetich SOFR	<i>Robb Francetich</i>	11/1/2016
Approved by:	Karen Buerki FOSC	<i>Karen Buerki</i>	11/1/2016
Approved by:	Tim Wynn SOSC	<i>Tim Wynn</i>	11/1/2016
Approved by	<i>Angie Kotlar</i> RP-IC	<i>Angie Kotlar</i>	11/1/16
Approved by			

Project:	CR-251 Event
Location:	Pelham, AL
Client:	Colonial Pipeline
Version History:	V 1.1

Introduction and Purpose

The Center for Toxicology and Environmental Health CTEH[®] was contracted by Colonial Pipeline, LP (Colonial) to conduct real-time air monitoring and analytical air sampling at a gasoline pipeline release and fire in Helena, AL. Based on an absence of air monitoring data, CTEH will be conducting initial air monitoring to determine if workers performing certain job tasks may be exposed to gasoline-related hydrocarbons, including benzene, at levels approaching their applicable occupational exposure guidelines (OELs) as outlined in this Plan.

The objective of the Sampling and Analysis Plan is to provide guidance for the action levels for airborne constituents of gasoline and its combustion by-products for response and remediation workers working in the area of the release site and the nearby community.

CTEH[®] Site-Specific Action Levels

The following chemicals were determined to have the greatest potential for human health impacts based on the relative levels in air of volatile organics emitted from gasoline and its likely combustion by-products, together with published information regarding health-based worker exposure and community health guidelines. Site specific action levels are to be employed in all monitoring locations (i.e. pipeline repair site and in nearby residential areas) to provide information for corrective action to limit chemical exposure. These levels are intended to be a concentration limit that triggers a course of action to better address worker and community member safety before regulatory or guideline exposure limits are reached. Real-time air monitoring for all analytes will be conducted on a 24-hour continuous basis with discrete readings recorded periodically. In addition, real-time air monitoring for site characterization may be conducted upon request. Readings collected for site characterization may be recorded directly above pooled product, or other areas not representative of the breathing zone. Based on the data collected, real-time air monitoring for some analytes may be reduced or discontinued. CTEH[®] will also collect analytical air samples at residential or commercial locations upwind and downwind of response operations. Details of this analytical sampling are provided in the pages below.

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Plan/Assignment: **WORK AREA (including sites where workers are performing response-related activities, such as fire suppression, excavation, and pipeline repair)**

Objective: Report air levels before they reach those requiring respiratory protection or other precautionary actions. More information regarding worker exposure sampling is provided in **Appendix A**.

Analyte	Action Level	Basis	Action to be Taken
Total VOCs	30 ppm	1/10 ACGIH® TLV-TWA for gasoline - Reading sustained for 15 minutes	Report reading to Site Management. Conduct specific monitoring for benzene.
	300 ppm	ACGIH® TLV-TWA - for gasoline Reading sustained for 15 minutes	Don respirator or evacuate area; report reading to Site Management.
	0.5 ppm	ACGIH® TLV-TWA - Reading sustained for 15 minutes	Don Air purifying respirator or evacuate area; report reading to Site Management.
Benzene	2.5 ppm	ACGIH® STEL Reading sustained for 5 minutes	Don Air purifying respirator or evacuate area; report reading to Site Management.
Gasoline	30 ppm	ACGIH® TLV-TWA - Reading sustained for 15 minutes	Don Air purifying respirator or evacuate area; report reading to Site Management.
Toluene	20 ppm	ACGIH® TLV-TWA - Reading sustained for 15 minutes	Don Air purifying respirator or evacuate area; report reading to Site Management.
Xylene	100 ppm	ACGIH® TLV-TWA - Reading sustained for 15 minutes	Don Air purifying respirator or evacuate area; report reading to Site Management.
Hexane	50 ppm	ACGIH® TLV-TWA (n-hexane) - Reading sustained for 15 minutes	Don Air purifying respirator or evacuate area; report reading to Site Management.
Naphthalene	10 ppm	ACGIH® TLV-TWA - Reading sustained for 15 minutes	Don Air purifying respirator or evacuate area; report reading to Site Management.



CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Combustion Products							
Analyte	Instrument Reading	Action to be Taken	Basis	Instrument	Detection Limit	Notes	Correction Factor
Particulate Matter (PM _{2.5} or PM ₁₀)	351 µg/m³ sustained for 5 min	Report reading to PM	Wildfire Smoke Guidelines for 1-hr avg. upper-bound breakpoint for unhealthy AQI	SidePak AM510	0.001 mg/m³	PM2.5 impactor – 50% cut-off at 2.5 micron PM10 impactor – 50% cut-off at 10 micron	NA
PM	200 µg/m³ for 8 hrs	Report reading to PM	Wildfire Smoke Guidelines for 8-hr avg. upper-bound breakpoint for unhealthy AQI	SidePak AM510	0.001 mg/m³	See above	NA
Carbon monoxide	25 ppm	Report reading to PM	ACGIH® TLV – Reading sustained for 5 minutes	MR Sensor	1 ppm	Range: 0 – 500 ppm	NA
				Gastec tube #11C	0.5 ppm	Range: 1 – 30 ppm Volume: 100	1
Sulfur dioxide	0.25 ppm	Exit area - Report reading to PM	ACGIH® STEL – Reading sustained for 5 minutes	MR Sensor	0.1 ppm	Range: 0 – 20 ppm	NA
				Gastec tube #51b	0.05 ppm	Range: 0.05 – 10 ppm Volume: Var.	Var.
Nitrogen dioxide	0.2 ppm	Report reading to PM	ACGIH® TLV – Reading sustained for 5 minutes	MultirAE PID	1 ppm	Measuring range: 1 – 5,000	16
				MR Sensor	0.1 ppm	Range: 0 – 20 ppm	NA
Formaldehyde	0.3 ppm	Sample only as requested, Exit area - Report to PM	ACGIH® Ceiling – confirmed with secondary instrument	Gastec tube #9L	0.1 ppm	Range: 0.5 – 125 ppm Volume: Var.	Var.
				Gastec tube #91L	0.05 ppm	Range: 0.1 – 40 ppm Volume: Var.	Var.

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Plan/Assignment: **COMMUNITY (Residential Areas near the Excavation & Pipeline Repair Sites)**

Objective: Report levels that minimize nuisance odor in the community and evaluate

Analyte	Action Level	Basis	Action to be Taken
Total VOCs	0.2 ppm	Reading Sustained for 15 minutes. Gasoline Odor Threshold; Colonial Air Monitoring Protocol	Report reading to Site Management. Assess the presence of benzene.
	100 ppm	Reading sustained for 30 minutes*. $\frac{1}{2}$ Gasoline-specific Emergency Response Planning Guidelines (ERPGL)-1** value	Report reading to Site Management.
Gasoline	0.2 ppm	Reading Sustained for 15 minutes. Gasoline Odor Threshold; Colonial Air Monitoring Protocol	Report reading to Site Management. Assess the presence of benzene.
Benzene	0.05 ppm	Reading Sustained for 15 minutes. Gasoline Odor Threshold; Colonial Air Monitoring Protocol	Report reading to PM and Site Management.
Toluene	2.5 ppm	Reading Sustained for 15 minutes; Colonial Air Monitoring Protocol	Report reading to PM and Site Management.
Xylene	0.5 ppm	Reading Sustained for 15 minutes; CTEH instrument detection limit	Report reading to PM and Site Management.
Hexane	50 ppm	Reading Sustained for 15 minutes; Colonial Air Monitoring Protocol	Report reading to PM and Site Management.
Naphthalene	10 ppm	Reading Sustained for 15 minutes; Colonial Air Monitoring Protocol	Report reading to PM and Site Management.

*If VOCs are detected at or above 100 ppm in the community, air monitoring personnel will remain at the site of detection and collect multiple readings throughout a 30 minute period.

**ERPGL-1: The maximum concentration in air below which it is believed nearly all individuals could be exposed for up to one hour without experiencing other than mild transient adverse health effects or perceiving a clearly defined objectionable odor. ERPGLs are developed by the Emergency Response Planning Committee of the American Industrial Hygiene Association (AIHA).

Air Sampling and Analysis Plan
Version: 1.1 Effective Date: 11/01/2016

Combustion Products							
Analyte	Instrument Reading	Action to be Taken	Basis	Instrument	Detection Limit	Notes	Correction Factor
Particulate Matter (PM _{2.5} or PM ₁₀)	138 µg/m ³ Sustained for 5 minutes	Report reading to PM	Wildfire Smoke Guidelines for 1 to 3-hr avg. upper-bound breakpoint for unhealthy for sensitive groups AQI	SidePak AM510	0.001 mg/m ³	PM2.5 impactor – 50% cut-off at 2.5 micron PM10 impactor – 50% cut-off at 10 micron	NA
PM	79 µg/m ³ for 8 hrs	Report reading to PM	Wildfire Smoke Guidelines for 8-hr avg. upper-bound breakpoint for unhealthy for sensitive groups AQI	SidePak AM510	0.001 mg/m ³	See above	NA
Carbon monoxide	12 ppm	Report reading to PM	Inform PM/PTD of potential off-site issues	MR Sensor	1 ppm	Range: 0 – 500 ppm	NA
				Gastec tube #1LC	0.5 ppm	Range: 1 – 30 ppm Volume: 100	1
Sulfur dioxide	0.3 ppm	Report reading to PM and Site Management	Emergency Response Planning Guidelines (ERP-G)-1*	MR Sensor	0.1 ppm	Range: 0 – 20 ppm	NA
				Gastec tube #5Lb	0.05 ppm	Range: 0.05 – 10 ppm Volume: Var.	Var.
Nitrogen dioxide	1.0 ppm	Report reading to PM and Site Management	Emergency Response Planning Guidelines (ERP-G)-1*	MultiRAE PID	1 ppm	Measuring range: 1 – 5,000	16
				MR Sensor	0.1 ppm	Range: 0 – 20 ppm	NA
Formaldehyde	1.0 ppm	Report reading to PM and Site Management	Emergency Response Planning Guidelines (ERP-G)-1*	Gastec tube #9L	0.1 ppm	Range: 0.5 – 125 ppm Volume: Var.	Var.
				Gastec tube #91L	0.05 ppm	Range: 0.1 – 40 ppm Volume: Var.	Var.

* The maximum airborne concentration below which it is believed nearly all individuals could be exposed for up to one hour without experiencing other than mild, transient adverse health effects or without perceiving a clearly defined objectionable odor.

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Plan/Assignment: SITE CHARACTERIZATION

Objective: Report air levels before they reach those precautionary actions.

Analyte	Action Level	Basis	Action to be Taken
Total VOCs	NA	NA	Report reading to Site Management.
Benzene	NA	NA	Report reading to Site Management.
Toluene	NA	NA	Report reading to Site Management.
Xylene	NA	NA	Report reading to Site Management.
Hexane	NA	NA	Report reading to Site Management.
Naphthalene	NA	NA	Report reading to Site Management.

Site characterization readings are not indicative of worker exposures (i.e., not taken at breathing level, no work activity, directly above product, etc.). As such, no occupational action levels are established for site characterization. All site characterization readings are noted and reported to site management.

Plan: All – FLAMMABILITY

Objective: Report areas where flammability is most likely.

Analyte	Instrument Reading	Corrected Value	Correction Factor	Basis	Action to be Taken
LEL	3 %	10 %	2.6 for gasoline LEL	10% LEL	Egress and Notify Site Management
VOCs	1,444 ppm	1,300 ppm	0.9 for gasoline PID	10% LEL	Egress and Notify Site Management

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Methods

Real-Time Monitoring Methods				
Chemical	Instrument	Detection Limit*	Tube#/Lamp	Notes
Gasoline (as VOC)	MultirAE/ AreaAE	0.09 ppm	PID 10.6 eV lamp	Measuring Range: 0.1 – 4,500 ppm
Gasoline	Colorimetric	5 ppm	Gastec tube #101L	Measuring Range: 30 – 1,000 ppm
Benzene	UltraRAE	0.05 ppm	PID 9.8 eV lamp	Change SEP tube frequently (Ben. Cal Gas)
	MultirAE/ AreaAE	0.05 ppm	PID 10.6 eV lamp	Measuring Range: 0.1 – 2,350 ppm
	Colorimetric	0.05 ppm	Gastec tube #121L	Range: 0.1 to 65 ppm
Toluene	MultirAE/ AreaAE	0.05 ppm	PID 10.6 eV lamp	Measuring Range: 0.1 – 2,250 ppm
	Colorimetric	0.5 ppm	Gastec tube #122L	Range: 1 to 100 ppm
Xylene	MultirAE/ AreaAE	0.5 ppm	PID 10.6 eV lamp	Measuring Range: 0.1 – 5,000 ppm
	Colorimetric	1 ppm	Gastec tube #123L	Measuring Range: 2 – 200 ppm
Hexane	MultirAE/ AreaAE	0.5 ppm	PID 10.6 eV lamp	Measuring Range: 0.1 – 5,000 ppm
	Colorimetric	1 ppm	Gastec tube #102L	Range: 4 to 1200 ppm
LEL	MultirAE/ AreaAE	2.6 %	Sensor	Measuring range: 1 – 100%
Naphthalene	Colorimetric	0.5 ppm	Gastec tube #60	Range: 0.5 – 14 ppm

*For electronic instruments, the detection limit is listed as the resolution adjusted by the correction factor.



CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Analytical Methods			
Analyte	Media/Can	Method	Notes
VOCs	1 L Minican	TO-15 + TICs	Minicans will be regulated for an 8 or 24 hour sampling period.
BTEX (+Hexane)	3M® 3520	NIOSH 1501	Passive sampling badges will be utilized for personnel sampling, if needed.
BTEX (+ Hexane)	226-01	NIOSH 1501	Charcoal Tubes to be used for STEL Sampling, if needed
Gasoline	3M® 3520	NIOSH 1550	Passive sampling badges will be utilized for personnel sampling, if needed.
PAHs (18 PNAH Profile - Galson)	37PTFE 2.0/Treated Amberlite XAD-2	Method 5506	

General Information on Procedures (Assessment Techniques) Used

Procedure	Description
Handheld Survey	CTEH® staff members will utilize handheld instruments (e.g. MultiRAE Plus/Pro; UltraRAE, Gastec colorimetric detector tubes, etc.) to measure airborne chemical concentrations. CTEH® will use these hand-held instruments primarily to measure the air within breathing zone. Additionally, measurements may be made at grade level, as well as in elevated workspaces, as indicated by chemical properties or site conditions. When readings are collected outside of the breathing zone, they may be classified as Site Characterization or will be noted in the reading comments. Real-time air monitoring readings may be collected at indoor commercial and residential buildings, if requested (e.g. prior to reopening).
Analytical Sampling	Analytical sampling will be used to validate the handheld data monitoring data, or to provide data beyond the scope of the real-time instruments. Analytical samples will be collected on specific collection media and sent to an off-site laboratory for further chemical analysis. If deemed necessary by the results of real-time air monitoring, CTEH® will conduct personal exposure sampling on response personnel involved in excavation, pipeline repair, or product recovery operations.
Guardian Network	A Guardian network may be established with AreaRAEs equipped with electrochemical sensors at locations around the work zone perimeter. The AreaRAEs will be telemetering instantaneous data at 15-second intervals to a computer console. MultiRAE Pros may also be used in the network. The data will be visible in real-time at the computer console and will be monitored 24 hours per day by CTEH personnel.



CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Quality Assurance/Quality Control Procedures

Method	Procedure
Real-time	<ul style="list-style-type: none">Real time instruments will be calibrated once per day which exceeds the manufacturer's recommendations.<ul style="list-style-type: none">At a minimum whenever indicated by site conditions or instrument readings.Lot numbers and expiration dates will be recorded with use of Gastec colorimetric tubes.
Analytical	<ul style="list-style-type: none">Chain of custody documents will be completed and documented for each sample.Level II data verification may be performed on all samples.Level IV data validation may be performed on 10% of total samples.Sample Nomenclature may contain:<ul style="list-style-type: none">Badge Serial Number (Badge Sampling)
Data Management	<ul style="list-style-type: none">Real-Time Monitoring data will be collected through the Mobile Data Studio Software, and QA/QC'd by air monitoring personnel for accuracy and consistency.<ul style="list-style-type: none">Real-time Data may include:<ul style="list-style-type: none">GPS CoordinatesLocation DescriptionCommentsReading of equipmentSerial Number of equipmentUnique Environmental Conditions (i.e. humidity, dust, etc.)Data will be databased using Microsoft Access Software and will be provided using the EPA SCRIBE software.QA/QC'd data and final report will be made after the demobilization of CTEH® from site.

Air Sampling and Analysis Plan

Version: 1.1 Effective Date: 11/01/2016

Change from version 1.0 to 1.1

- Added additional Community combustion product action levels for nitrogen dioxide, sulfur dioxide, and formaldehyde, based on AIHA ERPG-1 values.

	Name/Organization	Signature	Date Signed
Revised by:	Michael H. Lumpkin, PhD, DABT / CTEH	Michael H. Lumpkin	11/01/2016
Reviewed by:			